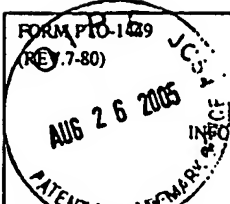


FORM PTO-1429 (REV. 7-80) 	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO.	APPLICATION NO.
			310121.418	10/820,074
			APPLICANTS Charles L. Gray, Jr. et al.	
			FILING DATE	GROUP ART UNIT
			April 7, 2004	3747

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PH	AA	6,186,748	02/13/01	Umeda et al.	417	269	
PH	AB	4,893,549	01/16/90	Forster	92	12.2	
PH	AC	4,872,394	10/10/89	Nakagawa et al.	91	506	
PH	AD	2004/0173089	09/09/04	Gray, Jr. et al.	91	505	
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK					
	AL					
	AM					
	AN					
	AO					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP		
	AQ		
	AR		

EXAMINER

/Patrick Hamo/

DATE CONSIDERED

03/01/2007

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449

(REV. 7-89)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

310121.418

APPLICATION NO.

10/820,074

INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

APPLICANTS

Charles L. Gray, Jr. et al.

FILING DATE

April 7, 2004

GROUP ART UNIT

3747

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PH	AA	5,572,919	11/12/96	Ishizaki	91	499	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
PH	AK	EP 0 974 753 A2	01/26/00	EPO		
PH	AL	EP 0 389 644 B1	07/06/94	EPO		
PH	AM	JP 54-44208	07/04/79	Japan (+ English Abstract)		X
	AN					
	AO					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	
	AQ	
	AR	

EXAMINER

/Patrick Hamo/

DATE CONSIDERED

03/01/2007

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).